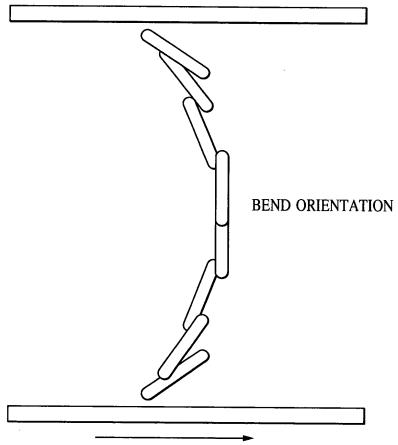
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FIG. 1 RUBBING DIRECTION



RUBBING DIRECTION

FIG. 2

POLARIZER 1	<b>-71</b>
PHASE COMPENSATOR PLATE (R<0)	<b>-72</b>
PHASE COMPENSATOR PLATE (R>0)	<b>-73</b>
LIQUID CRYSTAL CELL	<b>7</b> 4
POLARIZER 2	75 حر

FIG. 3

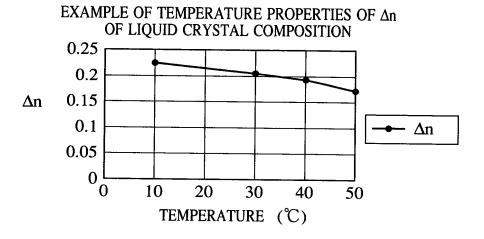


FIG. 4

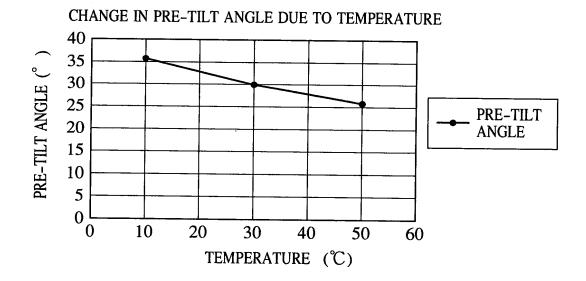


FIG. 5

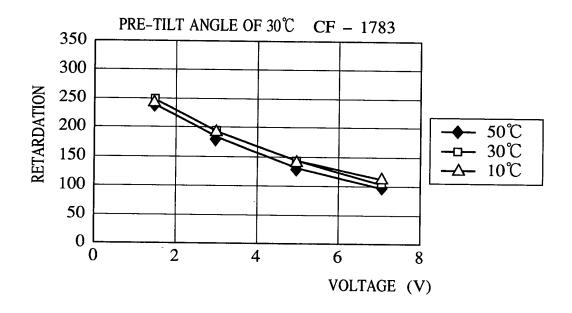


FIG. 6

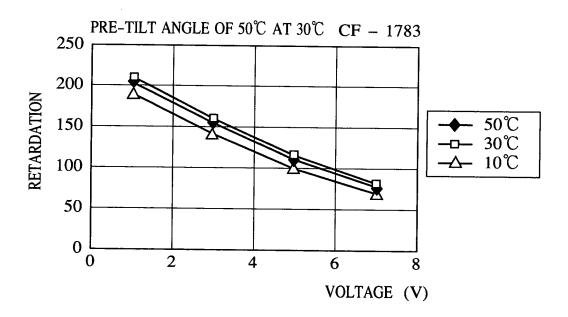


FIG. 7

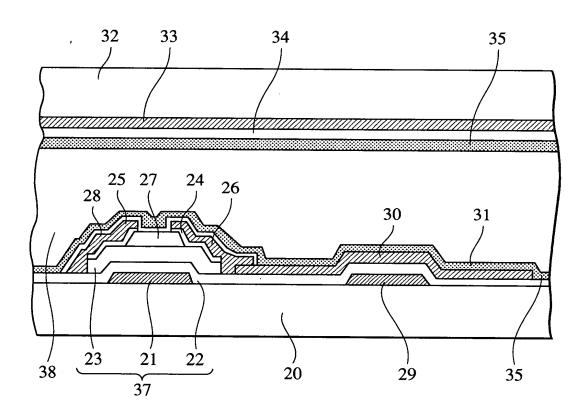


FIG. 8

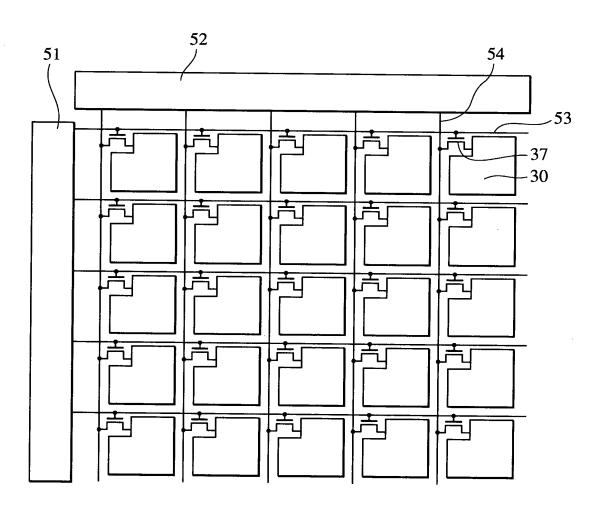


FIG. 9

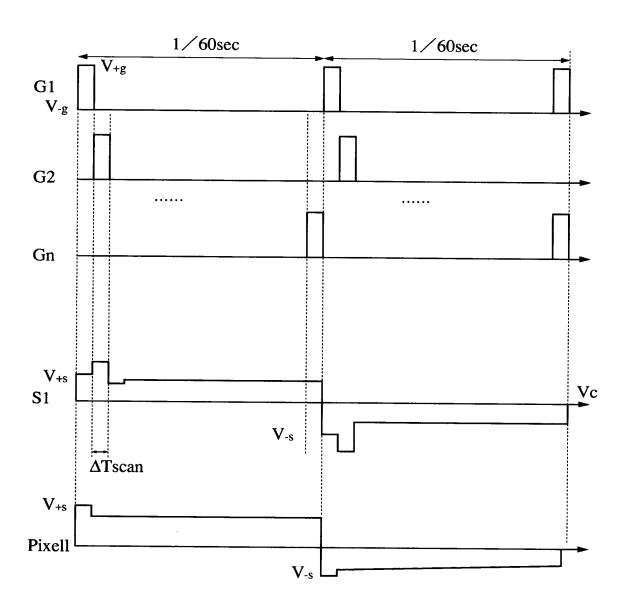


FIG. 10



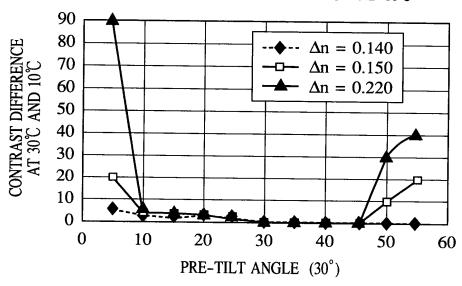


FIG. 11

## CONTRAST DIFFERENCE AT 30℃ AND 10℃ 140 CONTRAST DIFFERENCE AT 30°C AND 10°C 120 100 80 60 SERIES 1 40 20 0.12 0.14 0.16 0.18 0.2 0.22